INTERNATIONALSEARCHREPORT

International application No.
PCT/TP 2004/015878

	·	LC1/9E	2004/013076
A. CLASSIFICATIONOFSUBJECT MATTER			
IntCl ⁷ B21J 5/08, 9/06, B21K 1/14, 1/18			
According to International Patent Classification (IPC) or to both national classification and IPC			
B. FIELDS SEARCHED ·			
Minimum documentation searched (classification system followed by classification symbols)			
Int.Cl' B21J 1/00 - 13/14, 17/00 - 19/04, B21K 1/00 - 31/00			
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Japanese Utility Model Gazette 1922-1996, Japanese Publication of Unexamined Utility Model Applications 1971-2004, Japanese Registered Utility Model Gazette 1994-2004, Japanese Gazette Containing the Utility Model 1996-2004			
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)			
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C. DOCUMENTS CONSIDERED TO BE RELEVANT			
Category*	Citation of document, with indication, where a	ppropriate, of the relevant passages	Relevant to claim No.
A	JP 5-237584 A (HONDA GIKEN 1993.09.17, the whole docu		1-16
A	JP 9-253782 A (MATSUMOTO HEAVY INDUSTRY CO., LTD) 1997.09.30, the whole document (Family: none)		1-16
A	WO 93/17810 A (ENKOTEC A/S) 1993.09.16, the whole document & JP 7-506767 A		1-16
A	JP 2003-170238 A (SHOWA DE 2003.06.17, the whole docu	-	1-16
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Further documents are listed in the continuation of Box C. See patent family annex.			
* Special categories of cited documents: "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention			
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"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other			
special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means		"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art	
"P" document published prior to the international filing date but later "&" document member of the same patent family than the priority date claimed			
		Date of mailing of the international se	arch report
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Name and mailing address of the ISA/JP		Authorized officer	3P 8614
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